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**MONTANA FIRST JUDICIAL DISTRICT COURT
LEWIS AND CLARK COUNTY**

RON and VIVIAN DRAKE,
VIRGIL and KATHY KAISER,
LINDA MOOTS, LONNIE and
PHYLLIS BROOKSHIRE, and
MARY CLARK,

Petitioners,

v.

MONTANA DEPARTMENT OF
NATURAL RESOURCES AND
CONSERVATION,

Respondent.

Cause No. BDV-2008-480

**ORDER ON PETITION FOR
JUDICIAL REVIEW**

Before the Court is Petitioners Ron and Vivian Drake, Virgil and Kathy Kaiser, Linda Moots, Lonnie and Phyllis Brookshire, and Mary Clark's (Petitioners) petition for judicial review of the Montana Department of Natural Resources and Conservation's (DNRC) April 25, 2008 Final Order and notice of a two-year extension of the North Hills Valley (NHV) temporary controlled groundwater area (CGA), as to Drake Zone 2. Petitioners request that this Court designate Zone 2 as a permanent CGA, and that Zones 1 and 3 be subject to further study.

1 Oral argument was held on December 4, 2008, and the matter is ready for
2 decision. After reviewing the entire record, this Court believes that DNRC is uniquely
3 qualified to make the determination as to water *quantity* issues in determining when
4 Zones 1-3 should become permanent CGAs. While it appears to the Court that current
5 trends will indeed require that Zone 2 become a permanent CGA, the timing of that
6 permanent closure remains, at this point, within the discretion of DNRC.

7 As to water quality issues, the Court will remand this matter to DNRC to
8 enlist the assistance of other state and county entities for the purposes of implementing
9 a water testing plan and the repair and replacement of septic systems which violate
10 Montana regulations.

11 BACKGROUND

12 Petitioners are residents of the NHV and derive their drinking and
13 domestic water supplies from wells. The NHV is located approximately eight miles
14 north of Helena, and its eastern boundary is approximately two miles west of Lake
15 Helena. Groundwater within the CGA is used for single households, public water
16 supplies, commercial, school, irrigation, and other uses. (Admin. Record,¹ Tab 308,
17 at 31.) The NHV is a relatively dry area receiving an average of less than twelve
18 inches of precipitation per year. (Tab 205, at 4.) In recent years, Zone 2 has received
19 approximately nine inches of precipitation per year.²

20 Over the past decade, hundreds of residences have been built in the NHV
21 and many more residences are projected to be built in the future. Each residence
22 generally contains its own private domestic well and septic treatment system. There
23

24 ¹ All tabbed documents referenced herein can be found in the administrative record.

25 ² The legal description for Zone 2 is: T11N R03W Sec. 6-8, N1/2 9, NW1/4 18 T11N
R04W Sec. 1, 2, 11-14, NW1/4 24. T12N R03W Sec. 31.

1 are also numerous public wells in the area. Over 1,600 operational wells are located in
2 the NHV, and a similar number of regulated and unregulated septic systems are in use
3 in the area. The large number of septic systems is obviously a regulatory concern. If
4 they are not updated when necessary and replaced when needed, pollution will
5 eventually enter both private and public wells.

6 On July 2, 2001, Petitioners filed a petition with DNRC under Section
7 85-2-506, MCA, seeking to establish a CGA in certain portions of the NHV. (Tab 1.)
8 The parties agree that groundwater in the CGA is stored and transmitted through
9 complex fractured bedrock and aquifer systems which are highly variable and depend
10 on the flow properties of fractures and their interconnection. While recharge of wells
11 is not a problem in most areas within the NHV, limited recharge during the recent
12 drought has apparently lessened groundwater flow and storage properties in the
13 bedrock areas of Zone 2. Nitrate concentrations in a number of wells are also a
14 concern, especially in those areas hardest hit by drought conditions because of the
15 cones of depression³ which normally occur from well drawdowns.

16 On October 11, 2002, DNRC issued an order designating the entire NHV
17 (approximately 52.5 square miles) as a temporary CGA. (Tab 196.) Under Section 85-
18 2-507, MCA, the designation was for an initial period of two years, and was thereafter
19 extended through October 11, 2006. The purpose of the designation was to gather
20 information on "aquifer fractures, faults, and characteristics; aquifer recharge; and,
21 aquifer withdrawals to determine if withdrawals exceed recharge (capacity of the
22 aquifer); if new wells will impair or substantially interfere with other groundwater
23 wells; and if there is a contaminant plume developing that will be affected by

24
25 ³ A cone of depression results when pumping from wells lowers the water table near a
well. This area of drawdown directs groundwater flow toward the well. Wells must be placed
far enough apart to avoid intersecting cones of depression.

1 withdrawals.” (Id., at 2.) New groundwater appropriators and those seeking to drill
2 replacement wells were required to apply to the DNRC Helena Water Resources
3 Regional Office to obtain a license for drilling and testing purposes. (Id., at 3.) It was
4 determined at that time that the facts did not support area-wide controls other than
5 requiring the permitting of new wells within the temporary CGA so that testing could
6 be conducted as to flow rates and water levels, and water samples could be taken to
7 test for nitrates and other contaminants of concern. (Tab 190, at 14.)

8 The temporary designation was extended on October 8, 2004, under
9 Section 85-2-507, MCA. (Tab 198,) The purpose of the two-year extension was to
10 provide time to collect and analyze additional evidence to determine whether a
11 permanent CGA was warranted. The Lewis and Clark Water Quality District (District)
12 obtained a grant from DNRC’s Renewable Resources Grant Program to study the
13 CGA. The District contracted with the Montana Bureau of Mines and Geology
14 (MBMG) to conduct a study of the groundwater in the CGA. The study was completed
15 in the summer of 2006, and the MBMG issued an August 2006 report (MBMG
16 Report). (Tab 207.) According to that report, the “geologic framework and aquifer
17 geometry” were determined by interpreting 2,000 well completion reports on file in
18 MBMG’s Ground Water Information Center. (Id., at 4.) Water levels were measured
19 in 193 wells, and 11 wells were equipped with continuous water-level recorders. (Id.)
20 Numerous previous reports dating back to 1913 were also assessed. (Id., at 5.)

21 The altitude of the study area ranged from 3,650 feet near Lake Helena to
22 5,150 feet in the northwestern part of the study area. (Id., at 6.) Silver Creek was
23 determined to be an important source of ground-water recharge for the southwest
24 portion of the CGA. (Id., at 7.) Other sources of recharge to groundwater include
25 leakage and irrigation from the Helena Valley Irrigation Canal. (Id., at 14.) However,

1 it was determined that a portion of the NHV does not receive adequate recharge from
2 irrigation sources or from Silver Creek leakage. (Id., at 15.) The only groundwater
3 recharge in that area (which roughly correlates to Drake Zone 2) is from rain and snow
4 melt, which seasonally recharges those wells during winter and spring for use in
5 summer months. Recharge of wells was found to be excellent in areas of the NHV, but
6 seasonal and variable in other areas, including Zone 2. (Id., at 13-16.)

7 An issue of fact exists as to whether declining water levels in some of the
8 wells in Zone 2 are currently related to drought conditions or to over development of
9 groundwater resources by withdrawals from wells in that area. (Id., at 19.)

10 Groundwater discharges from the NHV to Lake Helena were estimated by MBMG at
11 725 acre-feet, while groundwater discharges or underflows along the southern
12 boundary of the study area were estimated at 12,970 acre feet. (Id., at 15.)

13 It was estimated that 1,623 residences were located in the area. (Id.)
14 The average consumption of groundwater for each residence was estimated at 464
15 gallons/day, with 162 gallons per day being returned to the groundwater system via
16 septic treatment systems, while 302 gallons were consumed through irrigation. (Id.)
17 Annual consumption of groundwater was estimated at 550 acre feet which was
18 estimated by MBMG to account "for about 4% of the total budget" for the combined
19 aquifers in the area. (Id.)

20 Three aquifers were identified as "a pre-Tertiary bedrock aquifer, [a]
21 Tertiary aquifer, and the Quaternary aquifer." (Id., at 10.) Interconnection appears to
22 occur between the aquifers in many areas. (Id.) Wells drilled in the pre-Tertiary
23 bedrock aquifer require finding joints and fractures in bedrock, resulting in greatly
24 varying depths of adequate water volume for domestic use. (Id.) Wells have been
25 reported up to 1,000 feet, but the average bedrock well was reported at "about 200 feet

1 deep.” (Id., at 12.) Well yields were reported at up to 100 gallons per minute (gpm)
2 with an average of 20 gpm. (Id.)

3 In the Tertiary bedrock, well depths were reported up to 800 feet with the
4 average at about 190 feet. (Id.) Well yields were reported up to 500 gpm, with an
5 average of 20 gpm. (Id.) In the Quaternary aquifer, yields were reported as higher and
6 well depths were lower: “Well depths have been reported up to 600 feet, but the
7 average is 120 feet. Yields have been measured up to about 900 gpm, with a reported
8 average yield of 35 gpm.” (Id., at 13.)

9 Groundwater generally flows from north to south, and “all three aquifers
10 appear to function as [a] single hydrostratigraphic unit.” (Id., at 25.) Because Silver
11 Creek was about 10 percent of normal in calendar year 2000, the aquifer in the
12 southwest part of the study area received less recharge and water levels in wells
13 dropped. (Id., at 25.) Testimony at the January 2008 administrative hearing indicated
14 that groundwater flows from Silver Creek may no longer be a viable source of
15 groundwater recharge for the southwest area of the CGA.

16 In areas where groundwater is recharged only by rain and snow melt,
17 decline was found not only in wells in the most populated areas but also in areas where
18 development is minimal. (Id.) Therefore, the decline was determined to be “related
19 more to climatic anomalies and to a lesser extent to over drafting by well withdrawals.”
20 (Id.) Several recommendations were set forth for further study and as a means toward
21 resolving low recharge including, among others: drilling new study wells 20-50 feet
22 deeper than surrounding wells; purchasing water rights to Silver Creek; and developing
23 “high capacity community-supply wells” in high water areas to supplement water in
24 low recharge areas. (Id., at 25-26.)

25 /////

1 Nitrates in two of 127 sampled wells exceeded EPA primary drinking
2 water standard for public drinking water supplies which is 10 milligrams per liter
3 (mg/L). (Id., at 20.) Nitrate concentrations at 11 sites were between 5 and 10 mg/L.
4 (Id.) Elevated nitrate levels were believed to have resulted from inadequate disposal of
5 human waste because of the problematic septic treatment system used at the site or a
6 nearby site. (Id.)

7 On September 12, 2006, a DNRC hearing was held to: 1) determine
8 whether to allow the temporary designation to expire; 2) extend the temporary
9 designation for two years; or, 3) to make the CGA designation permanent; and, 4)
10 determine if conditions or controls should be imposed on water use and future
11 development. In its Final Order (First Final Order) dated October 11, 2006, DNRC
12 determined that there was no need to continue the temporary CGA, and it was allowed
13 to expire on October 11, 2006. (Tab 205.)

14 Unsatisfied, Petitioners filed a petition for judicial review in *Drake et al.*
15 *v. DNRC*, Cause No. CDV-2006-795 (Mont. 1st Jud. Dist. Ct.). Thereafter, the parties
16 stipulated to remand to the Department to reopen the record to allow submission of
17 additional evidence. Accordingly, Cause No. CDV-2006-795 was dismissed.

18 A second administrative hearing was held on January 8 and 9, 2008.⁴
19 New evidence presented included written and oral testimony from property owners
20 living in Zone 2 who have experienced drawdowns in their well water levels, and a
21 January 2008 report prepared by Petitioners Ron and Vivian Drake entitled
22 "Assessment of Groundwater Occurrence, Availability, Sustainability, and
23 Contamination in the North Hills Controlled Groundwater Area" (Drake Report). (Tab
24

25 ⁴ The hearing was considered a reopening of the record and a continuation of the
hearing held on September 12, 2006.

1 242.) The report recommended dissection of the NHV into the four aforementioned
2 zones. (Tab 242, at 48.) As part of the rehearing process, DNRC appointed one of its
3 hydrologists, Russell Levens, to take a lead role in reviewing the exhaustive volume of
4 data which now exists. Other hydrologists and scientists provided additional
5 information and analysis during the hearing. (Tab 308, at 6.)

6 On March 4, 2008, hearing examiner Scott Irvin issued his initial
7 Proposal for Decision (Proposal). (Tab 308.) The Proposal distinguished the Drake
8 Report in several regards, accepting as more accurate the data provided in large part by
9 MBMG. MBMG and Russell Levens used different calculation methods in
10 determining that the estimated net consumption from well withdrawal for the 1,620
11 households in the CGA was approximately 550 acre-feet annually. The hearing
12 examiner accepted those findings and determined that groundwater withdrawals were
13 not in excess of recharge potentials in the aquifers, either within the entire CGA, or in
14 any particular zone. (Tab 308, at 14, 15.) Because the extent of the aquifer remains
15 uncertain, no determination could be made as to when future development will create
16 water withdrawals which will exceed the recharge potential of the aquifer; or what
17 controls will be necessary to prevent or mitigate that occurrence. (Id.)

18 The hearing examiner found that only one formal water rights complaint
19 has been filed in the entire 52.5 square mile CGA. (Id., at 16.) That complaint
20 revealed bedrock-drilling issues with one well but did not prove that a permanent CGA
21 was necessary. (Id., at 16.) In Drake Zone 2, while a pattern appears to have begun as
22 to declining levels in certain wells, the hearing examiner determined that "there is no
23 indication that water users cannot reasonably exercise their water rights" at this time.
24 (Id., at 20.)

25 ////

1 While certain septic systems in the area are aging and will need repair or
2 replacement, the hearing examiner determined that nitrate levels at this time do not
3 warrant an independent treatment plan, nor are groundwater withdrawals causing
4 contaminant migration to the extent that a public health, safety, or welfare risk has
5 been identified. (Id., at 22-23.) One public water supply well (Bob's Valley Service,
6 Inc.) showed levels above the EPA standard 10 mg/L level in 1997, but after its waste
7 disposal system was upgraded, subsequent samples showed decreased nitrate levels in
8 its well to between 2 and 5 mg/L. (Tab 306, at 37.)

9 On April 25, 2008, DNRC issued its Final Order and Notice of Two-
10 Year Extension of North Hills Temporary Controlled Ground Water Area (Second
11 Final Order). Hearing examiner Irvin concluded that a temporary controlled
12 groundwater area should continue in Zone 2, but not in Zones 1 or 3. (Tab 306, at 37.)
13 The parties agreed that no CGA is required at this point in Zone 4 because of its
14 proximity to the Helena Valley Irrigation Canal and irrigation in the area.

15 Petitioners filed their present petition for judicial review requesting that
16 this Court designate Zone 2 as a permanent CGA area instead of a temporary CGA.
17 Petitioners assert that because the criteria found in Section 85-2-506(2)(b), (d), (e), and
18 (f), MCA, as well as the requirements in Section 85-2-507(2), MCA, have been met,
19 the hearing officer failed to designate a permanent controlled groundwater area for at
20 least that portion of the North Hills temporary CGA.

21 STANDARD OF REVIEW

22 Although the Department's Second Final Order was not the result of a
23 standard contested case hearing (as the rules of evidence were not strictly enforced),
24 the Court believes that the appropriate standard of review remains governed by the
25 Montana Administrative Procedure Act. See Section 85-2-121, MCA; *Bitterroot River*

1 *Protection Ass'n v. Bitterroot Conserv. Dist.*, 2008 MT 377, ¶ 18, 346 Mont. 507, 198
2 P.3d 219. The standard of review for an agency decision is set forth in Section 2-4-
3 704(2), MCA, which provides:

4 (2) The court may not substitute its judgment for that of the
5 agency as to the weight of the evidence on questions of fact. The court
6 may affirm the decision of the agency or remand the case for further
7 proceedings. The court may reverse or modify the decision if substantial
8 rights of the appellant have been prejudiced because:

9 (a) the administrative findings, inferences, conclusions, or
10 decisions are:

11 (i) in violation of constitutional or statutory provisions;

12 (ii) in excess of the statutory authority of the agency;

13 (iii) made upon unlawful procedure;

14 (iv) affected by other error of law;

15 (v) clearly erroneous in view of the reliable, probative, and
16 substantial evidence on the whole record;

17 (vi) arbitrary or capricious or characterized by abuse of discretion
18 or clearly unwarranted exercise of discretion; or

19 (b) findings of fact, upon issues essential to the decision, were not
20 made although requested.

21 The Montana Supreme Court has adopted a three-part test to determine if
22 a finding is clearly erroneous. *Weitz v. Mont. Dep't of Natural Res. & Conserv.*, 284
23 Mont. 130, 943 P.2d 990 (1997). First, the Court is to review the record to see if the
24 findings are supported by substantial evidence. Second, if the findings are supported
25 by substantial evidence, the Court is to determine whether the agency misapprehended
the effect of the evidence. Third, even if substantial evidence exists and the effect of
the evidence has not been misapprehended, the Court can still determine that a finding
is clearly erroneous when, although there is evidence to support it, a review of the
record leaves the court with the definite and firm conviction that a mistake has been
committed. *State Personnel Div. v. Child Support Investigators*, 2002 MT 46, ¶ 19,
308 Mont. 365, 43 P.3d 305, 309 (citing *Weitz*, 284 Mont. at 133-34, 943 P.2d at 992).
Conclusions of law, on the other hand, are reviewed to determine if the agency's

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1 interpretation of the law is correct. *Steer, Inc. v. Dep't of Revenue*, 245 Mont. 470,
2 474, 803 P.2d 601, 603 (1990).

3 DISCUSSION

4 Petitioners request that this Court order DNRC to "actually and
5 adequately study this matter and determine the appropriate regulatory measures" and
6 "to close Drake Zone 2 to new appropriations pending the completion of that study and
7 formulation of specific appropriate controls." (Reply Br. Supp. Pet'rs' Mot. Review
8 Under § 2-4-704, MCA & Summ. J. at 19.)

9 Section 85-2-507(2), MCA, states:

10 (2) After the conclusion of the hearing, the department shall make
11 written findings and an order. The department shall by order declare the
12 area in question to be a controlled ground water area if the department
13 finds on the basis of the hearing that:

14 (a) the public health, safety, or welfare requires a corrective
15 control to be adopted; and;

16 (b)(i) there is a wasteful use of water from existing wells or undue
17 interference with existing wells;

18 (ii) any proposed use or well will impair or substantially interfere
19 with existing rights to appropriate surface water or ground water by
20 others; or

21 (iii) the facts alleged in the petition, as required by 85-2-506(2),
22 are true.

23 Under Section 85-2-506(2), MCA, a temporary or permanent CGA may be designated
24 if a showing is made that:

25 (a) ground water withdrawals are in excess of recharge to the
26 aquifer or aquifers within the ground water area;

27 (b) **excessive ground water withdrawals are very likely to
28 occur in the near future because of consistent and significant
29 increases in withdrawals from within the ground water area;**

30 (c) significant disputes regarding priority of rights, amounts of
31 ground water in use by appropriators, or priority of type of use are in
32 progress within the ground water area;

33 (d) **ground water levels or pressures in the area in question
34 are declining or have declined excessively;**

35 (e) **excessive ground water withdrawals would cause
36 contaminant migration;**

1 (f) ground water withdrawals adversely affecting ground
2 water quality within the ground water are occurring or are likely to
3 occur; or

4 (g) water quality within the ground water area is not suited for a
5 specific beneficial use defined by 85-2-102(4)(a), MCA.

6 Section 85-2-506(2)(a)–(g), MCA (emphasis added as to disputed provisions). At the
7 conclusion of any hearing relating to a proposed or designated CGA, if the Department
8 finds that insufficient facts are available to designate an area as a permanent CGA, it
9 may designate the area as a temporary area or remove that designation. Section 85-2-
10 507(5)(a), (8), MCA.

11 The Drake Study predicts that in future years wells within Zone 2 will
12 either go dry or become polluted. (Tab 242, at 28.) In contrast, the MBMG Report
13 estimates total well withdrawals constitute only four percent of the total water budget
14 in the entire CGA, with approximately 725 acre-feet discharging from the study area to
15 Lake Helena and 12,970 acre-feet discharging from the underlying southern boundary
16 of the area. (Tab 207, at 15.)

17 Petitioners make three arguments to the Court as to alleged flaws in the
18 hearing examiner's designation of Zone 2 as a temporary, instead of a permanent,
19 CGA, including that: (1) DNRC erred in holding that well declines in Drake Zone 2 do
20 not warrant making that area a permanent CGA; (2) evidence of polluted compounds
21 in Zone 2 make it a public health, safety, and welfare concern; and, (3) long-term
22 trends and cumulative impacts which, if allowed to continue unabated, will cause
23 unreasonable impacts to Petitioners and other water right holders.

24 Water Availability

25 Section 85-2-401(1), MCA, states in pertinent part, that the:
[p]riority of appropriation does not include the right to prevent changes
by later appropriators in the condition of water occurrence, such as the
increase or decrease of streamflow or the lowering of a water table,

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1 artesian pressure, or water level, *if the prior appropriator can reasonably*
2 *exercise the water right under the changed condition.*

3 (Emphasis added.) Because Zone 2 is designated as a CGA, the Department may not
4 grant a permit if the proposed withdrawal would be beyond the capacity of the aquifer
5 “within a reasonable or feasible pumping lift, in the case of pumping developments, or
6 within a reasonable or feasible reduction of pressure, in the case of artesian
7 developments.” Section 85-2-508(2), MCA. In addition, Section 85-2-306(2), MCA,
8 limits permitting within controlled groundwater areas. Further, because the entire
9 CGA is located within the Upper Missouri River Basin Closure Area under Section 85-
10 2-343, MCA, an augmentation plan is required for any groundwater appropriation
11 exceeding 35 gpm or 10 acre-feet per year, and the Department’s permit application
12 process requires an applicant to meet stringent statutory criteria.

13 Because there is no conclusive showing (at this time) that water levels in
14 Zone 2 are not primarily the result of drought conditions and that water right owners
15 cannot reasonably exercise their water rights under Section 85-2-401(1), MCA, and
16 because new appropriators will be strictly reviewed under both Sections 85-2-306(2), -
17 311, -401(1), and -508(2), MCA, this Court does not believe the hearing examiner
18 abused his discretion in granting a temporary CGA instead of a permanent CGA in
19 Zone 2. The hearing examiner determined that while Drake Zone 2 shows evidence of
20 a decline in water levels, the impacts and moderation of declines do not rise to the
21 level where prior appropriators cannot reasonably exercise their water rights under
22 Section 85-2-401, MCA. (Tab 306, at 5 (citing Proposal FoF Nos. 21-26)). As to
23 appropriate control options, the Department determined that “given the likely
24 development in Zone 2, the Department will undertake a study to evaluate the
25 possibility of scaled controls” in the area. (Tab 306, at 5.)

1 Upon remand, this Court believes that the Department should enlist the
2 assistance of other state and county agencies to review water quantity issues in the
3 Helena valley. Serious consideration should be given to implementing MBMG's
4 recommendations including, but not limited to, drilling test wells 20 to 50 feet deeper
5 than surrounding wells in Zone 2 areas which have been most effected by drought
6 conditions. (Tab 207, at 25.) Consideration should also be given to the development
7 of "high capacity community-supply wells in the Quaternary aquifer for use in areas
8 underlain by Tertiary or pre-Tertiary bedrock aquifers." (Id., at 26.)

9 Testimony was also provided during the hearing which indicated that
10 various subdivisions allow free, unlimited, and unmetered watering of private lawns.
11 If such is the case, this Court would find such usage to be wasteful under Montana law.

12 As will be discussed below, the Court believes the Department should
13 engage state and county agencies to test and assess home and business sites where
14 nitrate levels may exceed 5 milligrams per liter (mg/L) under Section 75-5-301, MCA,
15 *et seq.*, and A.R.M. 17.30.715.

16 Water Quality

17 The Department recognized the rights of all Montanans to a clean and
18 healthful environment under Article II, section 3, and Article IX, section 1, in
19 determining that continuing review is necessary regarding the presence of nitrates,
20 chlorides and other chemicals in the groundwater caused by the large number of septic
21 treatment systems:

22 The most recent data in the record showed that average nitrate
23 concentrations from 469 samples (129 wells) in the CGWA are 3.42
24 mg/L, compared to the U.S. Environmental Protection Agency (EPA)
MCL⁵ of 10 mg/L. Average chloride concentrations from 264 samples
are 23.3 mg/L, compared to the EPA MCL of 250 mg/L. . . . In this case,

25 ⁵ Maximum contaminant level.

1 the Department finds that the presence of the chemicals referenced above
2 is due to septic systems not the withdrawal of water and the Department
3 believes that a reasonable interpretation of the CGWA statutes requires it
4 to consider the limits set by the agency with water quality expertise,
5 EPA, in determining adverse effect to ground water quality and whether
6 water quality is suitable for the purpose for which it is used.

7 (Tab 306, at 3-4.) As referenced above, nitrates in 2 of 127 sampled wells exceeded
8 EPA primary drinking water standard for public drinking water supplies which is 10
9 mg/L. (Tab 207, at 20.) Nitrate concentrations at 11 sites were between 5 and 10
10 mg/L. (Id.) Elevated nitrate levels were believed to have resulted from inadequate
11 disposal of human waste because of the problematic septic treatment system used at the
12 site or a nearby site. (Id.) Overuse of fertilizers and other agricultural products may be
13 a separate cause for concern in some areas.

14 While nitrate and other chemical levels have not surpassed EPA levels,
15 except in specific locations where septic systems need to be repaired or replaced, it
16 should be noted that nitrates are considered degrading to groundwater if concentrations
17 exceed 5 mg/L in any applicable mixing zone for domestic sewage effluent discharged
18 from a conventional septic system. See, Section 75-5-301, MCA, *et seq.*; A.R.M.
19 17.30.715(1)(d); *Clark Fork Coalition v. Mont. Dep't of Envtl. Quality*, 2008 MT 407 ,
20 ¶ 33, 347 Mont. 197, 197 P.3d 482. For whatever reason, Montana's more stringent
21 regulations were not considered by the hearing examiner.

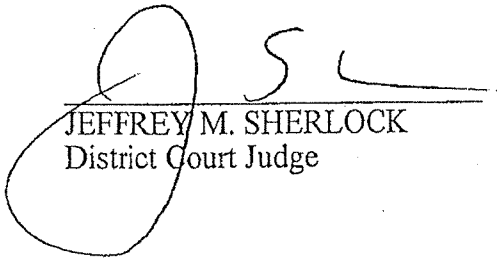
22 Because the Department must strictly review all new water right
23 applications in Zone 2 and will continue to monitor nitrates and other chemicals in that
24 zone, the Court does not believe the Department abused its discretion in determining
25 that a permanent CGA designation is not required at this time. However, if current
trends continue, a permanent CGA will be required as the combination of increased
degradation of groundwater and decreased well levels cannot continue unabated. In
addition, both state and county authorities must continue to monitor aging septic

1 systems in the entire North Hills management area and promptly require repair or
2 replacement whenever needed under Section 75-5-301, MCA, *et seq.*, and A.R.M.
3 17.30.715(1)(d).

4 CONCLUSION

5 Based on the above, this Court does not believe that the hearing
6 examiner abused his discretion in creating a temporary CGA in Zone 2 instead of a
7 permanent CGA. Therefore, the April 25, 2008 Final Order and Notice of Two-Year
8 Extension of North Hills Temporary Controlled Ground Water Area is hereby
9 AFFIRMED and REMANDED to DNRC with instructions to enlist other state,
10 federal, or county agencies as recommended above to apply the Montana nitrate
11 standards where appropriate. Most significantly, both state and county authorities must
12 conduct widespread testing for nitrates and other chemicals and continue to require
13 repair or replacement of aging septic systems throughout the NHV under Section 75-5-
14 301, MCA, *et seq.*, and ARM 17.30.715(1)(d).

15 DATED this 4 day of ^{March}~~February~~ 2009.

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18 
19 JEFFREY M. SHERLOCK
District Court Judge

20 pcs: Harley Harris
21 David K. W. Wilson, Jr.
22 Brian C. Bramblett/Anne W. Yates
Montana Department of Environmental Quality Legal Department
23 Andy Hunthausen - L&C County Commission
24
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T/JMS/drake v dnrc ord mot pet j rev.wpd